

60137-245/185-3067  
Serial No. 10/781,411, filed 2/18/04

### REMARKS

Claims 1, 2 and 6-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Schluter (3975128). Schluter does not disclose a mold valve assembly including a portion of an injection piston that is moveable into a mold valve chamber as claimed. Schluter discloses a system for filling a mold. The system includes a piston 3 having a planar end face 7 received in a cylindrical mixing chamber 1 (column 3, lines 12 to 15). The system includes a quieting chamber 12 that is extendable to a right angle to the cylindrical mixing chamber 1. The piston 3 does not extend into the quieting chamber 12. Instead, the piston 3 is contained entirely in the mixing chamber 1. The claimed invention is not anticipated, and Applicant respectfully request that the rejection be withdrawn.

Claims 3-5, 10 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schluter in view of Takizawa et al. (5770245). The Examiner admits that Schluter fails to disclose the claimed piston configuration, but states that Takizawa et al. discloses these features, and it would be obvious to employ these features in Schluter. Applicant respectfully disagrees.

Regarding claims 3 and 16, the Examiner states that Takizawa et al. discloses a piston 32 having seal rings 31 that are equivalent to a non-metallic portion being between metallic portions, and it would be obvious to employ these features in Schluter. It is not obvious to provide the piston 16 of Schluter with the seal rings 31 of Takizawa to seal the piston 16 within the quieting chamber 12. Figure 1 of Schluter shows a tight fit between the piston 16 and the wall of the chamber 12 that already provides sealing, and therefore there is no motivation to locate seal rings on the piston 16. Additionally, Takizawa, et al. does not disclose that the piston 32 is metallic or that the seal rings 31 are non-metallic. Neither reference alone or in combination shows these features. Therefore, the references taken together do not teach, suggest or disclose the claimed invention. Accordingly, claims 3 and 16 are not obvious.

Regarding claims 4 and 5, the Examiner states that Schluter discloses a mold valve piston that is selectively moveable to block an air inlet. Regarding claims 10, 15 and 17, the Examiner states that the claims do not teach a structural limitation. Claims 4, 5, 10, 15 and 17 depend on patentable independent claims 1 and 6 are allowable for the reasons set forth above. Neither reference alone or in combination discloses a mold valve assembly including a portion of an

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injection piston that is moveable into a mold valve chamber as claimed. Therefore, the claimed invention is not obvious.

Thus, claims 1-21 are in condition for allowance. The Commissioner is authorized to charge Deposit Account No. 50-1482, in the name of Carlson, Gaskey & Olds, P.C., \$50.00 for one additional dependent claim. No additional fees are seen to be required. If any additional fees are due, however, the Commissioner is authorized to charge Deposit Account No. 50-1482, in the name of Carlson, Gaskey & Olds, P.C., for any additional fees or credit the account for any overpayment. Therefore, favorable reconsideration and allowance of this application is respectfully requested.

Respectfully Submitted,

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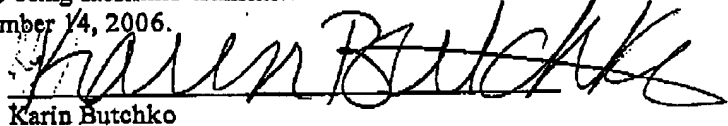
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**CERTIFICATE OF FACSIMILE**

I hereby certify that this amendment is being facsimile transmitted to the United States Patent and Trademark Office, 571-273-8300 on September 14, 2006.



Karin Butchko